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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,503	07/23/2002	Morimitsu Nakamura	9170-US-PA	4862
31561	7590	01/15/2004	EXAMINER	
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE			LAWRENCE JR, FRANK M	
7 FLOOR-1, NO. 100				
ROOSEVELT ROAD, SECTION 2			ART UNIT	PAPER NUMBER
TAIPEI, 100			1724	
TAIWAN			DATE MAILED: 01/15/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/064,503	NAKAMURA ET AL.
	Examiner Frank M. Lawrence	Art Unit 1724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

**A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.**

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) Responsive to communication(s) filed on 09 December 2003.

2a) This action is **FINAL**.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4) Claim(s) 1,4,6 and 8-11 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1,4,6 and 8-11 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) All b) Some \* c) None of:  
1. Certified copies of the priority documents have been received.  
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) The translation of the foreign language provisional application has been received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

1) Notice of References Cited (PTO-892)      4) Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.  
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)      5) Notice of Informal Patent Application (PTO-152)  
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.      6) Other: \_\_\_\_\_

## **DETAILED ACTION**

### *Specification*

1. The disclosure is objected to because of the following informalities: Paragraph [0021] should be amended to remove “link” references.

Appropriate correction is required.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 4, 6 and 8-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Ojo et al. (6,409,800).
4. Ojo et al. '800 teach a system for removing impurities from raw material air used for cryogenic separation, comprising contacting the air with a first adsorbent layer for selectively removing water, a second adsorbent layer for removing nitrogen oxides and hydrocarbons, and a third layer between the first and second layers for removing carbon dioxide. The second layer comprises a composite of A and X zeolites that are each 50-100% exchanged with ions that can include Ca, Mg, and combinations of these, which are specifically listed as sample exchange bases or salts (see col. 10, lines 4-20, claims 1, 3, 12, 27). An adsorption cylinder for containing the adsorbent layers is an inherent part of the system.

***Response to Arguments***

5. Applicant's arguments with respect to claims 1, 4, 6 and 9 have been considered but are moot in view of the new ground(s) of rejection. The examiner agrees that the EP '465 does not specifically disclose magnesium exchanged in any preferred ratio as claimed in the instant invention, while instead disclosing a broad group and a 0-100% range. A new non-final rejection is presented using the Ojo et al. '800 patent that discloses magnesium and calcium as specific exchange examples within a more narrow range of greater than 50% (preferably greater than 95%). A genus does not always anticipate a claim to a species within a genus. However, when the species is clearly named, the species claim is anticipated no matter how many other species are additionally named in the prior art reference. Ex parte A, 17 USPQ2d 1716 (Bd. Pat. App. & Inter. 1990) and In re Sivaramakrishnan, 673 F.2d 1383, 213 USPQ 441 (CCPA 1982). Because these limitations were previously claimed and presented, this rejection is not final.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank M. Lawrence whose telephone number is 571-272-1161. The examiner can normally be reached on Mon-Thurs 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Blaine Copenheaver can be reached on 571-272-1156. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-0987.

Frank M. Lawrence

*Frank Lawrence*  
1-8-04

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Primary Examiner  
Art Unit 1724

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